

(19) World Intellectual Property Organization  
International Bureau



(43) International Publication Date  
13 October 2005 (13.10.2005)

PCT

(10) International Publication Number  
**WO 2005/094282 A3**

(51) International Patent Classification:

A61K 38/00 (2006.01) A61K 38/04 (2006.01)

(21) International Application Number:

PCT/US2005/010152

(22) International Filing Date: 25 March 2005 (25.03.2005)

(25) Filing Language: English

(26) Publication Language: English

(30) Priority Data:

60/556,565 26 March 2004 (26.03.2004) US

(71) Applicant (for all designated States except US): **VION PHARMACEUTICALS, INC.** [US/US]; Four Science Park, New Haven, CT 06511 (US).

(72) Inventors; and

(75) Inventors/Applicants (for US only): **KING, Ivan** [US/US]; 65 Blue Hills Road, North Haven, CT 06473 (US). **SZNOL, Mario** [US/US]; 186 Rimmon Road, Woodbridge, CT 06525 (US). **BELCOURT, Michael** [US/US]; 9 Algonquin Drive, Wallingford, CT 06492 (US). **ZHENG, Li-Mou** [US/US]; 406 Hilltop Road, Orange, CT 06477 (US).

(74) Agent: **CHAN, Albert, Wai-Kit**; World Plaza, Suite 604, 141-07 20th Avenue, Whitestone, NY 11357 (US).

(81) Designated States (unless otherwise indicated, for every kind of national protection available): AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI,

GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NA, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SM, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW.

(84) Designated States (unless otherwise indicated, for every kind of regional protection available): ARIPO (BW, GH, GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM, ZW), Eurasian (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM), European (AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IS, IT, LT, LU, MC, NL, PL, PT, RO, SE, SI, SK, TR), OAPI (BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG).

Declarations under Rule 4.17:

- as to applicant's entitlement to apply for and be granted a patent (Rule 4.17(ii))
- as to the applicant's entitlement to claim the priority of the earlier application (Rule 4.17(iii))
- of inventorship (Rule 4.17(iv))

Published:

- with international search report
- with amended claims

(88) Date of publication of the international search report: 11 May 2006

Date of publication of the amended claims: 20 July 2006

For two-letter codes and other abbreviations, refer to the "Guidance Notes on Codes and Abbreviations" appearing at the beginning of each regular issue of the PCT Gazette.

(54) Title: COMBINATION THERAPY COMPRISING CLORETAZINE<sup>TM</sup>

(57) Abstract: This invention provides a method for treating tumor in a subject comprising administering to the subject an effective amount of: (1) VNP40101M, or its equivalent; and (2) a nucleoside, or a nucleoside analog. This invention also provides a method for inhibiting tumor cell growth comprising contacting the tumor cell with effective amounts of: (1) VNP40101M, or its equivalent; and (2) a nucleoside, or a nucleoside analog. The present invention relates to the treatment of cancer, comprising administering to a subject in need thereof an effective amount of VNP40101M in combination with a nucleoside.



WO 2005/094282 A3